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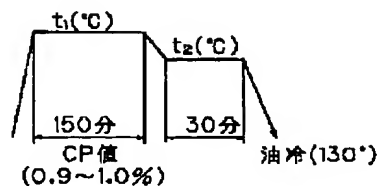
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C21D 6/00**C21D 9/28****C21D 9/32****C21D 9/40****C22C 38/00****C22C 38/06****C22C 38/18****C22C 38/38****C22C 38/58****C23C 8/22****C23C 8/32****C23C 8/80**(21) Application number: **06193423**(22) Date of filing: **17.08.94**(71) Applicant: **KOBE STEEL LTD MAZDA
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MATSUSHIMA YOSHITAKE**(54) **PRODUCTION OF HIGHLY ACCURATE PARTS**

(57) Abstract:

PURPOSE: To produce highly accurate parts improved in damping capacity by attaining its high accuracy.

CONSTITUTION: An intermediate art parts formed by using a case hardening steel having a compsn. contg. 0.03 to 0.30% C, $\leq 0.50\%$ Si (including zero%), 0.3 to 3.0% Mn, $\leq 0.030\%$ P (including zero%), $\leq 0.035\%$ S (including zero%), 0.015 to 0.06% Al and 0.005 to 0.03% N, contg., at need, Cr, Mo, V, Ni, Cu, Ti, Nb, Ca, Zr or the like, and the balance Fe with inevitable impurities are subjected to carburizing treatment, are thereafter cooled to a room temp. at a cooling velocity V of the critical cooling velocity V_{c1} to V_{c4} ($^{\circ}\text{C}/\text{sec}$) or below expressed by a prescribed formula, are, if desired, subjected to modifying working in which the shape of the parts is modified, are subsequently reheated to a temp. lower than the primary carburizing temp. in a carburizing or carbo- nitriding atmosphere and are thereafter subjected to hardening treatment.



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